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THE MOLE STREET JOURNAL

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

JUNE 2010

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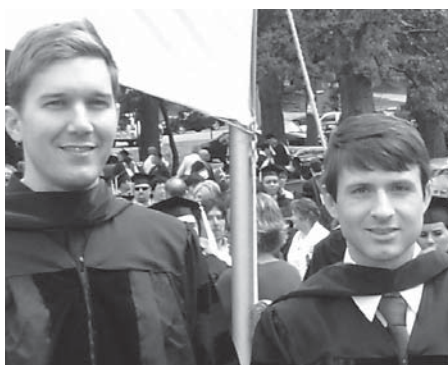
Commencement 2010



From left: Katie Hamblin, John Sherrill, Geri Burkett, Carter Ford, Jaime Nelson, Bill Durham, Rosalba Ocampo and Tyler Rogers



Ingrid Fritsch and Matt Gerner (MicroEP)



Andy Williams and Ryan Farris



Elizabeth Srader and Jessica Sutton

Gann Defends Dissertation



Steve Gann

Steve Gann successfully defended his doctoral dissertation "Electrode Materials and Oxygen Sensing," May 13. His research was performed under the direction of **David Paul**.

Gann began his graduate studies in 2007. He is from Russelleville and will join the faculty at Arkansas Tech.

Phi Beta Kappa

The Phi Beta Kappa Alpha Chapter of Arkansas inducted eight chemistry majors into the society this spring. There were 82 total initiates in the 2010 class.

Chapter members must be invited and be seniors in the Fulbright College. Initiates rank in the top ten percent of their graduating class. Undergraduate research and special academic experiences are also considered.

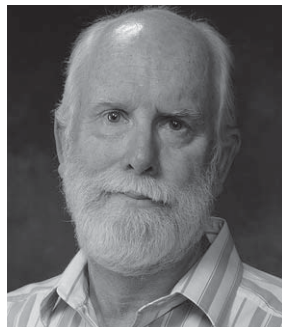
Andrew Avery
Geri Burkett
Courtney Chandler
Rodney LaGrone

Christina Ragland
John Sherrill
Elizabeth Srader
Jessica Sutton

Faculty News

ACS Division Co-Chair

Bob Gawley, has been appointed to the position of program chair-elect for the



Bob Gawley

organic division of the American Chemical Society (ACS).

As chair-elect, he will be responsible for organizing the organic division

poster session at the next four national meetings.

The division poster session typically has 500 presentations at each meeting.

In 2013, he will advance to chair, where he will be responsible for organizing the entire organic division program. For all four years, he will serve on the executive committee of the organic division of the ACS.

Kumar Gets Gold Medal

Suresh Kumar was one of six Faculty Gold Medal recipients honored at the



Suresh Kumar

State and National Awards ceremony and reception in April. The award recognizes outstanding work with undergraduate students.

Research News

Recent publications by the Koeppe group

"Influence of Proline upon the Folding and Geometry of a Model Transmembrane Peptide," **Thomas, Rachel** (2009) *Inquiry* 10, 14-20. University of Arkansas.

"Influence of Proline upon the Folding and Geometry of the WALP19 Transmembrane Peptide," **Thomas, Rachel, Vitaly V. Vostrikov, Denise V. Greathouse, and Roger E. Koeppe II** (2009) *Biochemistry* 48, 11883-11891.

"Changes in Transmembrane Helix Alignment by Arginine Residues Revealed by Solid-State NMR Experiments and Coarse-Grained MD Simulations,"

Vostrikov, Vitaly V., Benjamin A. Hall, **Denise V. Greathouse, Roger E. Koeppe II**, and Mark S. P. Sansom (2010) *J. Am. Chem. Soc.* 132, 5803-5811.

Recent publications by **Julie Stenken**

"How Minimally Invasive is Microdialysis Sampling? A Cautionary Note for Cytokine Collection in Human Skin and Other Clinical Studies," *AAPS Journal*, 2010, 12, 73-78. **J. A. Stenken**, M. K. Church, C. A. Gill, and G. F. Clough.

"Long-term Calibration Considerations During Subcutaneous Microdialysis Sampling in Mobile Rats," *Biomaterials*, 2010, 31, 4530-4539. X. Mou, M. Lennartz, D. J. Loegering, and **J. A. Stenken**.

On The Go

Colin Heyes will attend and make a poster presentation at the NIH, NCRR Third Biennial National IDEAS Symposium of Biomedical Research Excellence June 16-18.

He will also attend and present a poster at the Gordon Research conference on Single Molecule Approaches to Biology, Lucca, Italy June 27- July 2.

58th American Society for Mass Spectrometry (ASMS) Conference on Mass Spectrometry and Allied Topics Salt Lake City, May 23-27

The following poster presentations with department authors were made. Presenter is underlined.

"S-adenosylmethionine – Essential in Cadmium Stressed *Saccharomyces Cerevisiae* Cells," **S Mariccor Andresa Batoy, Rohana Liyanage**, Peter Kaiser, and **Charles L. Wilkins**.

"Optimization in Mass Spectrometry Analysis Of [6,6]-Phenyl C61-Butyric Acid Methyl Ester," **Evgenia Akhmetova**, Santosh Narasimhachary, Ashock Saxena, and **Charles L. Wilkins**.

"Fragmentation of Polyacrylates by Tandem ESI-FTMS," **Sasa Miladinovic**, Cynthia Kaeser, and **Charles L. Wilkins**.

"Giant fullerenes as in-situ Internal Calibrants for High Mass Accuracy MALDI-IM-Otofms Tissue Imaging," **Ernest K. Lewis**, Thomas F. Egan, **Sasa Miladinovic**, Shelley N Jackson, Amina S. Woods, **Charles L. Wilkins**, and J. Albert Schultz.

"Identification of Serum Biomarkers in Poultry with Leg Problems," **Komal S. Rasaputra**, Narayan C. Rath, **R. Liyanage**, and **J. O. Lay, Jr.**

"Effect of Toll-Like Receptor Agonists on Thymosin beta 4 (Tβ4) Production by Chicken Macrophages," **Lakshmi Kannan**, **Rohana Liyanage**, **Jackson O. Lay**, and Narayan C. Rath.

Safety Tip

Laboratory gloves should NOT be worn for an extended time.

Normally a few minutes of use followed by disposal is appropriate. If something leaks through the glove it will cause significantly more damage because the glove holds the material in contact with the skin.

Hands should be washed after the gloves are removed

Student News

Research Experience for Undergraduates

The department is hosting an NSF funded REU program for the 22nd consecutive year.

During the 10-week summer program students will do research in the lab of a chosen mentor and attend weekly meetings. In late June, they will travel to central Arkansas for an on-site tour of NCTR.

Outside the lab, the group will go canoeing, bowling, roller-skating, and visit Devil's Den State Park and Lake Fayetteville.

Summer students in the HHMI, REU and INBRE programs will present their research in a combined poster session Thursday, July 22. There are four INBRE students on campus in other departments.

Current institutions, hometowns and campus research mentor are listed below. Not pictured is **Amanda Hicks**, a student at John Brown University whose hometown is Colorado Springs, Colo.

Student Selected for Harvard Workshop

Doctoral candidate **Randy Francisco Espinal Cabrera** has been selected to participate in the Fulbright Workshop on Effective University Teaching in STEM (Science, Technology, Engineering, Math) Fields, at Harvard University June 27 to July 3. His research is under the direction of **Julie Stenken**.

His selection as a Fulbright Grantee was by the Western Hemisphere Fulbright Program at the U.S. Department of State in coordination with LASPAU Academic and Professional Programs for the Americas.

LASPAU is a nonprofit organization affiliated with Harvard University with the mission of providing access to global education opportunities, stimulating knowledge generation and transfer, and promoting intercultural understanding throughout the Americas.



Randy Espinal Cabrera

REU Students



Eric Berget

Minnesota State University
Hometown: Detroit Lakes, Minn.
Mentor – Charles Wilkins



Jean-Marie Charles

Cameron University
Hometown: Roseau, Dominica
Mentor – Nan Zheng



D.J. Crowell

Lyon College
Hometown: Wynne
Mentor – Peter Pulay



Anna Fielder

University of Arkansas
Hometown: Fayetteville
Mentor – Bob Gawley



Rebecca Foos

John Brown University
Hometown: Fort Collins, Colo.
Mentor– Matt McIntosh



Jared Kafader

Elmhurst College
Hometown: Mt. Prospect, Ill.
Mentor – Roger Koeppe



Erika Russell

Bethune-Cookman University
Hometown: Grand Rapids, Mich.
Mentor – Paul Adams



Maria Williams

Texas Southern University
Hometown: Baton Rouge, La.
Mentor – Frank Millett
* George Washington Carver intern

Calendar of Events

June

- 14..... Last day to drop a SSI course with a "W"
- 24..... Lois Geren retirement party
- 25..... Last day SSI
- 27..... Last day to receive 100% cancellation of fees for summer session II
- 28..... First day SSII
- 29..... Last day to register for SSII

July

- 01..... Last day to drop a SSII course without a "W"
- 05..... Independence Day, university closed
- 22..... Combined poster session and luncheon
- 23..... Scientific Solutions vendor show
- 26..... Last day to drop a SSII class with a "W"

August

- 06..... Last day SSII
- 23..... First day fall semester

The above dates and events are listed on the department's Blackboard site
<https://courses.uark.edu/>

2010-2011 Holiday Schedule

The University of Arkansas will be closed in observance of the following holidays during the period July 1, 2010 through June 30, 2011:

- July 5, 2010 - Independence Day
- September 6, 2010 - Labor Day
- November 25, 2010 - Thanksgiving Day
- November 26, 2010 - Thanksgiving Holiday
- December 24, 2010 - Christmas Eve
- December 27, 2010 - Christmas Day
- December 28, 2010 - in lieu of Veteran's Day
- December 29, 2010 - in lieu of employee's birthday
- December 30, 2010 - charged to annual leave
- December 31, 2010 - New Year's Day
- January 17, 2011 - Dr. Martin Luther King's Birthday
- March 25, 2011 - Friday of Spring break, in lieu of George Washington's/Daisy Gatson Bates' Day
- May 30, 2011 - Memorial Day

For more information see <http://vcfa.uark.edu/Documents/4092.pdf>

Lois Geren Retirement Party

All are invited to a fish fry celebration to honor the retirement of Research Assistant Professor **Lois Geren**, Thursday, June 24 at 5:30 p.m. at The Gardens pavilion on the corner of Leroy Pond Ave. and Razorback Road.

RSVP to cheminfo@uark.edu or 5-5198 by June 18.

On the Buffalo - The annual department float trip occurred Tuesday, May 25 after being rained-out the week before. At right: floaters take a break from the canoe to hike to Hemmed-in Hollow, mid America's tallest waterfall at 204 feet. Photo by Frank Millett.

June Birthdays

- 02.....Jose Aldana
- 03.....Lorraine Brewer
- 08.....Fei Zhao
- 09.....David Hayes
- 18.....Roger Williams
- 28.....Samrat Thapa
- 29.....Wally Cordes
- 29.....Derrel Walters

The publishing of birthdays is not intended to invade the privacy of anyone. If you prefer not to be included, please let us know.

Library Hours

CHBC Library (CHEM 225)
<http://libinfo.uark.edu/chemistry>

Summer hours (May 17 - August 18)

Saturday-SundayCLOSED

Monday-Thursday8 a.m. to 6 p.m.

Friday8 a.m. to 5 p.m.

Exceptions to summer hours

July 5.....CLOSED

